CLAIMS

1. A system for filling a cryogenic fluid storage tank from a mobile tank (1) comprising a pressurized-fluid supply pump (6) that can be connected via a filling hose (7) to a fluid inlet (3) of the storage tank, characterized in that the mobile tank (1) comprises a pump control unit (8) including a pressure sensor that can be connected to a pressure tapping (5) of the storage tank, and programmable logic allowing the pump to operate when the pressure measured in the storage tank lies within a predetermined range.

2. The system as claimed in claim 1, characterized in that the control unit (8) is connected to a secondary hose (10) that can be connected selectively to the pressure tapping (5) of the storage tank (2).

3. The system as claimed in one of the preceding claims, characterized in that the filling hose (7) comprises a manually-disengageable non-return valve device (11).

4. The system as claimed in one of the preceding claims, characterized in that the cryogenic fluid is a gas from the air.